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PREFACE.

Origin of Educational Collections.

In 1854 a special loan exhibition of educational appliances, English and Foreign, was held in St. Martin's Hall, Long Acre, under the direction of the Society of Arts. At its close many of the exhibitors of books, school furniture, diagrams, &c. left their contributions at the disposal of the Society, by which they were subsequently handed over to the Science and Art Department of the Committee of Council on Education, and in 1857, when the Museum at South Kensington was formed, a portion of the temporary iron buildings was appropriated for the display of this Collection; and publishers and manufacturers were invited to add to it by loans, an invitation which was very widely responded to. For ten years the books, school furniture, elementary scientific apparatus, drawing models, and other educational appliances were displayed as one collection, and under the title of the Educational Museum attained considerable reputation both at home and abroad.

School furniture, fittings, &c.

In 1867 portions of the iron buildings were removed preparatory to the erection of new permanent additions to the Art Museum, and space was found for the school furniture, apparatus, &c. first in the corridors and outbuildings of the Museum, and afterwards in the galleries to the south of the Horticultural Gardens, where they remained till, in 1888, other more pressing demands on the space made it necessary to discontinue the exhibition of all except the scientific apparatus, which has been combined with the Collection of Scientific Apparatus for Teaching and Research, formed after the special loan exhibition of Scientific Apparatus held at South Kensington in 1876. (*See* 36th Report of the Department, p. xxx.)

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Educational Library.

Meanwhile the elementary school books, &c. received from the Society of Arts had been retained in the Museum, and a reading room had been provided for the use of students. The collection was largely augmented by gifts from publishers and from the various exhibitions at home and abroad, and a supply of more advanced text books and works of reference was provided to meet the demands of readers, chiefly students connected with the Science and Art Schools of the Department. To these were added reports and other works bearing on the history and progress of education at home and abroad, together with numerous educational periodicals both English and Foreign. A library of general literature which had been formed for official use of the inspectors, &c. at the central office of the Committee of Council on Education was in 1876 removed here,* and in 1882, after the re-organisation of the science teaching of the Department, it was determined to transfer to South Kensington from the Library of the Museum of Practical Geology in Jermyn Street for the use of the professors and students of the Normal School of Science all the books not required by the staff of the Geological Survey, or by the Mining Class.

Revision of Educational Library in 1883.

In 1883 a committee of advice and reference which had lately been appointed to examine and report on the educational collections of the South Kensington Museum found that by the accumulations of the past twenty-five years the Library had become larger and more comprehensive than was at first anticipated, and that it then contained more than 45,000 works (not including duplicates), many of course being small and unimportant. The reports and recommendations of this committee were considered by the Department, and the following Minute, dated the 19th July 1883, was the result as regarded the Library:—

> My Lords have before them the reports on the Educational Museum of the Committee of Advice and Reference who were appointed by Minute of the 9th May 1882.
>
> In accordance with the recommendations therein contained, and with those of the Departmental Officers to whom such reports have been

* Books from this collection are referred to by C.C.E.L., No. .

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referred, My Lords have decided to make the following arrangements in regard to the above-mentioned Libraries :—

1. The books relating to Science in the Educational Library to be amalgamated with the books brought from Jermyn Street, and formed into a Science Library, special facilities being afforded to the Professors of the Normal School to have out on loan such as they require. The books on Art to be added to the Art Library.

2. School and text books, English and Foreign, to be formed into a separate collection and retained with the Educational apparatus for reference and inspection, but not to be used by students as a reading library.

3. Books relating to the history, science, and art of education, English and Foreign; reports and memoirs relating to public instruction at home and abroad; educational periodicals of all countries; reports, calendars, examination papers, &c. of public educational institutions to be formed into a separate section by themselves.

4. Additions by purchase or otherwise to be only made in future of books falling under one or other of the preceding heads.

5. The books under sections 1, 3, and 4, to be housed for the present in the existing Educational Library rooms, and to be open to the public as at present, so long as there is room after providing for the students of the Normal School of Science.

6. No additions to be made to the other classes of books in the Educational Library; but those that are already in the possession of the Department to be retained as an Appendix to the Science and Educational Library in the present rooms, and to be open to use by readers therein, as at present.

Science Library.

Since that time the additions to the Library have mainly been confined to books on science, selected with special reference to the requirements of the professors and students of the Normal School, now the Royal College of Science. About 9,750 volumes have been received from Jermyn Street, a large proportion of these being Journals and Transactions of Scientific Societies, English and Foreign. At the close of 1884 the present Reading Room was opened, being the fifth room used for this purpose since 1857.

The following Catalogue, which deals with the Science Library only,* is really a tenth edition (with numerous additions, and some omissions) of the science portion of the "Catalogue of the Educational Division of the South Kensington Museum," which was first issued in 1857, and of which the ninth edition appeared

* A catalogue of books relating to the history, science, and art of education, &c. is in preparation.

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in 1876. With some modifications the classification originally adopted in that Catalogue is still adhered to.

Some of the more elementary school books have been omitted from the Catalogue, and are kept with the collection of school and text books directed by the above Minute to be available for inspection only.

South Kensington Museum,
March 1891.

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PART I.

MATHEMATICS.

ARITHMETICAL TABLES OF MONEY, WEIGHTS, AND MEASURES.

Abbott, W. J. Manual of the Decimal System for the Use of Jewellers, Pawnbrokers, Silversmiths, &c.; also a Ready Reckoner. (The Weights and Measures' Act, 1878.) post 8vo. cloth.
J. & R. Maxwell [1879].

Agriculturist's Calculator. *See Works on* AGRICULTURE.

Arman, A. Complete Ready Reckoner for the Admeasurement of Land, with a Table showing the Price of Work, from 2*s.* 6*d.* to 1*l.* per acre. (Weale's Series.) 12mo. cloth, stiff.
J. S. Virtue, 1862.

Browne, W. H., LL.D. Money, Weights, and Measures of the Chief Commercial Nations in the World, with the British Equivalents. 12mo. cloth, stiff. E. Stanford, 1864.

Chambers's Commercial Tables; consisting of Reckoning, Interest, Annuity, &c. New edition. 12mo. bound.
W. & R. Chambers.

Chisholm, H. W. (Warden of the Standards.) On the Science of Weighing and Measuring, and Standards of Measure and Weight. crown 8vo. cloth. (Nature Series.)
Macmillan & Co., 1877.

——— On Balances (Science Lectures at South Kensington). *See Works on* PHYSICS (*General Treatises*).

Clapham, J. The Carrier's Improved Ready Reckoner for cwts., qrs., lbs., from 2*s.* 6*d.* to 140*s.* per ton. oblong post 8vo. cloth. London, 1859.

Degranges, E. Tables ou Calculs tout faits d'Intérêts. *See Works on* BOOK-KEEPING.

Dowling, C. H. A Series of Metric Tables, in which the British Standard Measures and Weights are compared with those of the Metric System at present in use on the Continent. *See Works on the* METRIC SYSTEM (*below*).

Downing, W. Timber Merchant's and Builder's Companion. Tables of the Weight and Measurement of Deals, &c., with Prices. 2nd edition. post 8vo. cloth. C. Lockwood & Co.

Dunham, Robert Clark. Decimal Key for simplifying all ordinary Arithmetical Operations. folio. half bound.
London, 1866.

East Indian Ready Reckoner; a Series of Tables showing the Cost of any Number of Articles in Indian Currency. Including Numbers answering to fixed Indian Weights and Measures. By C. D. royal 8vo. cloth.
Smith, Elder, & Co., 1864.

Festing, A. M. Tables for the Conversion of Sterling into Dollars and Cents, and *vice versâ*. 2 parts in one volume. fcp. folio. cloth.
Desbarats, Ottawa, 1867.

Gumersall, T. B. Tables of Discount or Simple Interest, from 5 to 2½ per cent.; with Tables of Brokerage or Commission. 9th edition. 8vo. cloth.
Effingham Wilson.

Haviland, J. The Scientific Adviser; containing Tables of Specific Gravities of all Substances; their Superficial and Solid Contents; Land Measuring; together with a Computation of the Differences between Old and New Weights and Measures; also Prices of the Work of Millwrights, and other Artificers; with Tables of Interest, Discount, &c. 5th edition. 8vo. boards.
London, 1826.

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Hrabák, J. Gemeinnütziges Mathematisch-Technisches Tabellenwerk, insbesondere für das Metrische und Englische, Oesterreichische und Preussische Maas- und Gewichts-System. 2nd edition. royal 8vo. sewed.
Teubner, Leipzig, 1876.

Inwood, W. Tables for the Purchasing of Estates, Annuities, &c. 17th edition, with Additions, by Mons. Fedor Thoman. 12mo. cloth. C. Lockwood & Co., 1859.

Kelly, Dr. P. The Universal Cambist and Commercial Instructor. 2nd edition. 2 vols. 4to. calf. London, 1826.

Kupffer, A. T. Travaux de la Commission pour fixer les Mesures et les Poids de l'Empire de Russie. 2 vols. With Atlas. 4to. half calf.
St. Petersburg, 1841.

McCulloh, R. S. A Manual containing Tables to be used by the Revenue Officers of the United States. small 12mo. bound. Washington, 1849.

Metric System, Works on the. *See next Section.*

Millers' (The), Merchants' and Farmers' Ready Reckoner, with the Approximate Values of Millstones and Millwork, &c. (Weale's Series.) 12mo. cloth, stiff. J. S. Virtue, 1861.

Richardson, W. Packing Case Tables, showing the Number of Superficial Feet in Boxes, &c. oblong post 4to. cloth, stiff. C. Lockwood & Co., 1864.

Tate, W. The Modern Cambist; a Manual of Foreign Exchanges; with Tables of Foreign Weights and Measures, and their Equivalents in English and French. 9th edition, brought down to the Present Time. 8vo. cloth.
Effingham Wilson, 1858.

Thoman, F. Theory of Compound Interest and Annuities, with Logarithmic Tables. 12mo. cloth.
C. Lockwood & Co., 1859.

Warren, Rev. I. Table and Formula Book. sq. 24mo. sewed.
Longmans & Co., 1889.

Wheeler, J. Appraiser, Auctioneer, House Agent, and House Broker's Pocket Assistant for Valuation, &c. 2nd edition. royal 32mo. cloth.
C. Lockwood & Co.

Wood's Discount Tables, calculated from 1*d.* to 200*l.* at from ¼ to 90 per cent. 24mo. cloth. Whittaker & Co., 1851.

Woolhouse, W. S. B. Measures, Weights, and Moneys of all Nations, &c. 12mo. cloth. J. Weale, 1856.

——— ——— 6th edition. 12mo. cloth.
C. Lockwood & Co., 1881.

METRIC SYSTEM OF WEIGHTS, MEASURES, AND COINAGE.

American Metrological Society. Proceedings. *See* **Transactions**—New York.

Bonn, Prof. Great Britain's New Proposed Decimal Albert System of Weights, Measures, and Coins, compared with the French Metric System, &c. 8vo. sewed. London, 1869.

Bowring, Sir J. The Decimal System in Numbers, Coins, and Accounts. crown 8vo. cloth. N. Cooke, 1854.

——— ——— post 8vo. cloth.
E. Stanford, 1872.

British Decimal System (A) of Weights and Measures. Described by Abacus. 8vo. sewed.
G. Graham, Edinburgh, 1872.

Bureau International des Poids et Mesures. Travaux et Mémoires. *See* **Transactions**—Paris.

Dowling, C. H. A Series of Metric Tables, in which the British Standard Measures and Weights are compared with those of the Metric System at present in use on the Continent. 8vo. cloth. C. Lockwood & Co., 1864.

——— Handbook to accompany the Synoptic Table of Measures and Weights of the Metric System. By J. Yates. post 8vo. cloth, limp.
W. & A. K. Johnston, 1864.

Dunham, R. C. Decimal Key for Simplifying all ordinary Arithmetical Operations. *See* Arithmetical Tables, &c.

International Association for obtaining a Uniform System of Measures, Weights, and Coins (British Branch), &c., Various Pamphlets published by the. In one vol. 8vo. half roan. 1855–66.

Jackson, L. d'A. Modern Metrology; a Manual of the Metrical Units and Systems of the Present Century. post 8vo. cloth. C. Lockwood & Co., 1882.

Levi, Leone. The Theory and Practice of the Metric System of Weights and Measures. fcp. 8vo. sewed. 1871.

——— ——— 2nd edition. fcp. 8vo. cloth.
Griffith and Farran, 1871.

Rickard, W. Manual of the Metric System. fcp. 8vo. sewed.
G. Philip & Son, 1872.

Ross, W. S. Text-Book of the Metric System and Decimal Coinage. New edition. fcp. 8vo. sewed. T. Laurie.

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Saigey, M. Traité de Métrologie, Ancienne et Moderne, suivi d'un précis de Chronologie et des Signes Numériques, &c. *See Works on* ARITHMETIC (*Foreign*).

Spain. Comision Internacional del Metro. *See* **Transactions**—MADRID : *Instituto Geográfico.*

Taylor, H. Decimal System as applied to the Coinage and Weights and Measures of Great Britain. 12mo. cloth. Groombridge & Sons, 1851.

For other Works on the Metric System and Decimal Coinage, see in following Section :—

Browne, W. A. Arithmetical Examples.
Bryce, J. The Arithmetic of Decimals.
Colenso, Bishop. Arithmetic for Schools.
Kavanagh, J. W. Arithmetic.

(In the Science Galleries of this Museum will be found a Collection of Weights, Measures, Coins, with Diagrams, illustrating the different Systems adopted in various parts of the World, &c.)

ARITHMETIC.

ENGLISH TREATISES.

Alingham, W. New Treatise of Arithmetick. 12mo. calf. London, 1705.

Ars bene Numerandi, or a Small Tract of Arithmetick, &c. By T. R. (T. Richards?) 18mo. calf. London, 1702.

Ayres, J. Arithmetick Made Easie, with a Treatise on Book-keeping by C. Snell. Revised by E. Hatton. 17th edition. 18mo. bound. T. Norris, London, 1726.

Babbage's Calculating Engines. Being a Collection of Papers relating to them; their History and Construction. 4to. cloth. E. & F. N. Spon, 1889.

[*Babbage's Difference and Analytical Engines are in the Science Collections of this Museum.*]

Baker, Humph. The Well-Spring of the Sciences; teaching the perfect Work and Practice of Arithmetic. 18mo. bound. S. Brewster, London, 1657.

Bayley, W. H. Hand-Book of the Slide Rule, showing its Applicability to I.—Arithmetic (including Interest and Annuities). II.—Mensuration (Superficial and Solid, including Land Surveying). New edition. 12mo. cloth. G. Bell & Sons, 1876.

Bridges, Noah. Lux Mercatoria; Arithmetic, Natural and Decimal. royal 18mo. calf. T. Johnson, London, 1661.

Browne, W. A., LL.D. Arithmetical Examples for Military and Civil Service; a Complete Treatise on Arithmetic, consisting of Questions given at Military and Civil Service Examinations, &c.; with an Account of Money, Weights, and Measures, and a Sketch of the Metric System. 12mo. cloth. 1864.

——— Arithmetical Questions on the 8th Civil Service Report, with Answers and Solutions. 12mo. stitched. 1864.

——— Civil Service Tests in Arithmetic. fcp. 8vo. cloth.

——— Army Tests in Arithmetic; with Answers. 12mo. cloth, limp. E. Stanford, 1871.

Bryce, J. The Arithmetic of Decimals, adapted to a Decimal Coinage. 2nd edition. post 8vo. cloth. A. & C. Black, Edinburgh, 1860.

Byrne, Oliver. Dual Arithmetic. A new Art. New issue, with a complete Analysis. 8vo. cloth. 1864.

——— ——— Part 2. The Descending Branch of the "Art" and the "Science" of Dual Arithmetic. 8vo. cloth. 1867.

——— The Young Dual Arithmetician, or Dual Arithmetic. A new Art, designed for Elementary Instruction, &c. 12mo. cloth. Bell & Daldy, 1866.

Christie, J. A. The Constructive Arithmetic; developing a new method of teaching the Science and Art of Computation. With 8,000 Examples for practice. 12mo. cloth. Virtue Brothers & Co., 1865.

Cocker's Arithmetick; being a plain and familiar Method, suitable to the meanest Capacity, for the full Understanding of that incomparable Art. Perused and published by John Hawkins. 45th edition, carefully corrected and amended by George Fisher. 12mo. in roan case. (Imperfect.) London, n.d.

——— ——— Perused and published by John Hawkins. 12mo. calf. Printed by R. Holt, 1688.

——— ——— By John Hawkins, and George Fisher. 49th edition. 12mo. bound. London, 1738.

——— Decimal Arithmetic. By J. Hawkins. 4th edition. 12mo. bound. R. Wellington, London, 1715.

Colenso, Bishop. Arithmetic for Schools, with a Chapter on Decimal Coinage. New edition. 12mo. boards. 1853.

——— ——— Key to, by S. Maynard. 3rd edition. 12mo. boards. 1854.

——— ——— New edition, revised, with Notes and Examination Papers. 12mo. half calf. Longmans & Co., 1864.

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Colenso, Bishop. Arithmetic for Schools, with Chapter on Decimal Coinage. Key, adapted to the revised edit. of 1864. By the Rev. J. Hunter, M.A. 12mo. half calf. Longmans & Co., 1864.

Cornwell and **Fitch's** Science of Arithmetic. 4th edition. 12mo. cloth. 1858.

——— ——— 15th edition. 12mo. cloth. Simpkin & Co., 1874.

De Morgan, A. Arithmetical Books and Authors, from the Invention of Printing to the Present Time. post 8vo. cloth. Walton & Maberly, 1847.

——— Elements of Arithmetic. post 8vo. cloth. Walton & Maberly, 1857.

——— ——— 6th edition. 8vo. cloth. E. Stanford, 1876.

Dilworth, T. The Schoolmaster's Assistant; being a Compendium of Arithmetic, both Practical and Theoretical. 14th edition. 12mo. bound. London, 1767.

——— ——— 17th edition. 8vo. bound. 1772.

——— ——— 22nd edition. 12mo. bound. 1784.

——— ——— 23rd edition. 12mo. sheep. (*Brooke Collection.*) London, 1787.

Donald, J. Commercial Arithmetic; comprising Proportion and its application to Interest, Exchange, Stocks, Profit and Loss, &c., according to a New Method, &c. crown 8vo. cloth. Simpkin & Co.

Evers, H. Arithmetic in Theory and Practice. With Answers. post 8vo. cloth. W. Collins, Sons, & Co., 1876.

Galbraith, Rev. J. A., and **Haughton,** Rev. S. Manual of Arithmetic. fcp. 8vo. cloth. Longmans & Co., 1855.

——— ——— New edition. fcp. 8vo. cloth. Cassell, Petter, & Galpin, 1868.

Girdlestone, Rev. W. H. Arithmetic, Theoretical and Practical. crown 8vo. cloth. Rivingtons, 1867.

——— ——— 2nd edition, revised and enlarged. crown 8vo. half morocco.

——— ——— School edition. fcp. 8vo. cloth. Rivingtons, 1870.

Goyen, P. Higher Arithmetic and Elementary Mensuration. post 8vo. cloth. Macmillan & Co., 1888.

Gray, J. G., and **Lawson,** G. The Elements of Graphical Arithmetic and Graphical Statics. *See Works on* MECHANICS.

Hatton, E. The Merchant's Magazine; or, Tradesman's Treasury. 5th edition. post 4to. old calf. London, 1707.

Hatton, Ed. An Intire System of Arithmetic; or Arithmetic in all its parts. small 4to. calf. London, 1721.

Hill, J. Arithmetick, both in Theory and Practice. With Preface by H. Ditton. post 8vo. sheep. (No title.) (*Brooke Collection.*) 1712.

——— Arithmetick, both in the Theory and Practice, Made Plain and Easie. 2nd edition; with the addition of Algebraical Questions. post 8vo. old calf. London, 1716.

——— ——— 15th edition. 12mo. bound. Edinburgh, 1780.

Hind, Rev. John. The Principles and Practice of Arithmetic, comprising the Nature and Use of Logarithms, with the Computations employed by Artificers, Gaugers, and Land Surveyors, with a New Appendix of Miscellaneous Questions. 12mo. boards.

——— ——— Key to; with an Appendix, consisting of Questions for Examination in all the Rules of Arithmetic. 12mo. boards. Deighton, Bell, & Co., Cambridge, 1856.

Hipsley, W. Equational Arithmetic applied to Questions of Interest, Life Assurance, &c. 2nd edition. 12mo. cloth, stiff. J. Weale, 1854.

——— ——— Part 2. 12mo. cloth stiff. J. S. Virtue, 1852.

Hoare, C. The Slide Rule and How to Use it. With a Slide Rule in tuck of cover. 4th edition. 12mo. cloth, stiff. (Weale's Series.) C. Lockwood & Co., 1881.

Hodder, J. Decimal Arithmetick. 18mo. old calf. London, 1668.

——— Arithmetick; or, that necessary Art Made Most Easie. 20th edition, revised by H. Mose. 18mo. bound. London, 1697.

Hunter, Rev. J. The Art of Solving Problems in Higher Arithmetic. post 8vo. cloth. 1884.

——— ——— Key to. post 8vo. cloth. Longmans & Co., 1884.

Hutton, C. The Schoolmaster's Guide, or a Complete System of Practical Arithmetic and Book-keeping. 3rd edition. 12mo. bound. Newcastle-upon-Tyne, 1771.

——— A Complete Treatise on Practical Arithmetic and Book-keeping. 6th edition. 12mo. bound. London, 1781.

——— Arithmetic and Book-keeping. Edited by Ingram and Trotter. New edition. 12mo. bound. Oliver & Boyd, Edinburgh, 1857.

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Johnston, R. Civil Service Arithmetic, containing 1,300 Questions proposed by the Civil Service Commissioners, with Solutions of some of the most difficult. 12mo. cloth. Longmans & Co., 1863.

——— ——— 14th edition. 12mo. cloth. 1879.

——— ——— A Key to. 12mo. cloth. 1879.

——— ——— 15th edition; with Examination Papers given in 1879, their Answers, &c. Longmans & Co., 1880.

Kavanagh, J. W. Arithmetic, its Principles and Practice. 5th edition, with an Appendix on Coins and Coinage, Decimal Money, &c. 12mo. cloth. C. Dolman, 1857.

Lardner, Dr. A Treatise on Arithmetic. post 8vo. cloth. Longmans & Co.

Leybourn, W. Arithmetical Recreations; or Enchiridion of Arithmetical Questions, &c. 24mo calf. London, 1667.

——— Arithmetick: Vulgar, Decimal, Instrumental, Algebraical. 5th edition. 12mo. bound. London, 1684.

Lupton, W. M. Arithmetic. 2nd edition. 12mo. sewed. Longmans & Co., 1867.

——— ——— Key to. By C. R. Lupton. 12mo. cloth. Longmans & Co., 1877.

Merrifield, C. W. Technical Arithmetic and Mensuration. post 8vo. cloth. (Text-Books of Science.) Longmans & Co., 1872.

——— ——— 2nd edition. post 8vo. cloth. 1878.

——— ——— New edition. post 8vo. cloth. 1882.

——— ——— Key to, by Rev. J. Hunter. post 8vo. cloth. Longmans & Co., 1878.

Morland, Sir S. The Description and Use of Two Arithmetick Instruments. Together with a Short Treatise, Explaining and Demonstrating the Ordinary Operations of Arithmetick. As likewise, a Perpetual Almanack, and several Useful Tables. fcp. 8vo. calf. London, 1673.

[*The Calculating Machine adapted to Trigonometrical Computations, and Constructed by Sir Samuel Morland in 1664, is in the Science Collections of this Museum.*]

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[*A Reproduction of this Map is in Science Collections, S. K. M.*]

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Salmon, Mr. Modern Gazetteer; or, a Short View of the several Nations of the World. 9th edition, by Mr. Potter. post 8vo. sheep. (*Brooke Collection.*) London, 1773.

Sands' Country Directory and Gazetteer of New South Wales, for 1881–82. 8vo. cloth. J. Sands, Sydney.

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Australia, South, Plan of the Southern Portion of the Province of, as divided into Counties and Hundreds, showing Agricultural Areas, Post Towns, Telegraph Stations. Compiled from Official Documents in the Office of the Surveyor-General, 1872. 10 sheets, 24 in. by 18 in. With Map in one vol. morocco.

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Black's General Atlas of the World, 70 Maps coloured, with Index. New edition. folio. half morocco. (2 copies.) A. & C. Black, Edinburgh, 1854.

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Edinburgh Imperial Atlas, Ancient and Modern. folio. half morocco. (2 copies.) Gall & Inglis, Edinburgh.

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Hiscocks & Co.'s New Victorian Counties Atlas. folio. half morocco. G. Roberton, Melbourne, 1874.

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Nichols, Priestley, and Walker's New Map of Inland Navigation, Canals and Railroads, with situations of Mineral Productions in Great Britain. 3 maps, mounted on linen, folded in boards, 26 in. by 17 in. London, 1830.

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Proctor, R. A. The Students' Atlas, in Twelve Circular Maps. With 2 Index Maps. Intended as a Vade-Mecum for the Students of History, Travel, Geography, Geology, &c. 8vo. cloth. Longmans & Co., 1889.

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Switzerland and the Adjacent Countries, The Alpine Club Map of, on the Scale of 4 miles to the inch. Edited by R. C. Nichols. In four sheets, mounted to fold in 12mo. size. cloth wrappers. Longmans & Co.

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Atlas, Geographical and Political, of the States and Territories in which Public Land Surveys are now in operation. By S. S. Burdett. 28 in. by 35 in. In wrapper. Washington, 1876.

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Useful Knowledge Society's Atlas of Modern Geography, accompanied by a complete Series of Star Maps, and Alphabetical Index. In all 150 Maps. large 4to. half morocco. E. Stanford, 1861.

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Wells, Edw. A new Set of Maps, both of Ancient and Present Geography. folio. half bound. Bonevicke, London, n.d.

FOREIGN ATLASES.

Andree, R., and **Scobel,** A. Karte von Afrika. 3 ft. by 2 ft. 7 in. Mounted on canvas. In 4to. cardboard cover. Velhagen & Klasing, Bielefeld, 1884.

Berghaus, Prof. Dr. H. Physikalischer Atlas. Pt. 1 and onwards, as far as issued. oblong royal folio, in paper wrapper. Justus Perthes, Gotha, 1886, &c.

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Cassini. Cartes de la France. Comprising 44 Maps, about 36 in. by 23 in., folded and contained in 10 cases. 8vo. calf, lettered. 1756–59. *Presented by Lewis Cubitt, Esq.*

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Droysen, Prof. J. G. Allgemeiner Historischer Handatlas in 69 Karten, mit erläuterndem Text, ausgeführt unter Leitung von Dr. Richard Andree. folio. half calf. Velhagen & Klasing, Bielefeld, 1886.

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Lange, Dr. H. Atlas der Geographie. Maps, 4to. Text, by O. Uhle, oblong 4to. 2 vols. half calf. Brockhaus, Leipzig, 1875.

Leuzinger, R. Carte Physique et Géographique de la France. Size 22½ in. by 21½ in. To fold in post 8vo. wrapper. J. Wurster & Co., Zurich, 1885.

Lüddecke, R. Afrika, in 6 Blättern. Mit vollständigen Namenverzeichnis. In folio cloth boards. J. Perthes, Gotha, 1890.

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Field, Rev. W. Introduction to the Use of the Globes, with Questions for Examination. 5th edition. 12mo. bound. London, 1815.

——— ——— New edition, revised by G. Eaton. 18mo. bound. Allman & Son, 1851.

Greig, J. Introduction to the Use of the Globes. 3rd edition. small 12mo. bound. London, 1816.

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Harris, Jos. The Description and Use of the Globes and the Orrery. 10th edition. 8vo. sheep. (*Brooke Collection.*) London, 1768.

Hues, R. Tractatus de Globis et eorum Usu. A Treatise descriptive of the Globes constructed by Emery Molyneux, and published in 1592, &c. 8vo. cloth. (No. 79.) *Hakluyt Society,* 1889.

Keith, T. New Treatise on the Use of the Globes. 4th edition. 12mo. bound. 1815.

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Newton, W. The Use of the Globes, with a Familiar Introduction to the Science of Astronomy. 12mo. cloth. Newton & Co., 1854.

Pinnock, W. H. Familiar and Practical Treatise on the Use of the Globes, &c. 12mo. cloth. James Wyld, 1838.

Thackwray, W. Practical Treatise on the Use of the Globes. 12mo. bound. London, 1810.

Wyld, J. Treatise on the Use of the Globes, Terrestrial and Celestial; and the Construction of Maps. 12mo. cloth. J. Wyld, 1852.

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Alexander, Dr. S. Certain Harmonies of the Solar System (Smithsonian Contributions to Knowledge, Vol. 21.) *See* **Transactions, &c.**—WASHINGTON.

Arago, F. Popular Lectures on Astronomy. Translated, with Notes, by W. K. Kelly. 4th edition revised by the Rev. L. Tomlinson. fcp. 8vo. boards.
Routledge & Co., 1854.

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Ainslie, J. Treatise on Land Surveying. New edition, embracing Railway, Military, Marine, and Geodetical Surveying, by W. Galbraith. 8vo. cloth. Plates, oblong 4to. cloth. (*C. C. E. L., Nos.* 1030, 1031.)
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E. & F. N. Spon, 1874.

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Castle, H. J. Elementary Text-Book for Young Surveyors and Levellers, with copious Field Notes, Plans, and Diagrams. crown 8vo. bound.
Simpkin & Co., 1856.

Clarke, Col. A. R. Geodesy. 8vo. cloth. Clarendon Press, Oxford, 1880.

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Hudson, R. Land Valuers' best Assistant, being Tables for calculating the Value of Estates. New edition. royal 32mo. bound. Simpkin & Co.

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Modèles de Dessin et de Lavis. Plates of Plotting and Drawing Plans, &c. 1st and 2nd Series. folio. Hachette & Co.
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Nesbit, A. Complete Treatise on Practical Land Surveying, with the Field Book, 16 pp. 10th edition. Revised by T. Baker. With Plane Trigonometry and Railway Engineering, &c. 8vo. cloth. 1855.

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Penther, J. F. Praxis Geometriæ, worinnen nicht nur alle bey dem Feld-Messen vorkommende Fälle, mit Stäben, dem Astrolabio, der Boussolle und der Mensul, in Ausmessung eintzeler Linien, Flächen und gantzer Revier, welche, wenn deren etliche angräntzende zusammen genommen, eine Land-Karte ausmachen, u.s.w. deutlich erörtert, sondern auch treulich communiciret werden. fcp. folio. Wolff, Augsburg, 1738.
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PART III.

NATURAL HISTORY.

GEOLOGY, PALÆONTOLOGY, MINERALOGY, METALLURGY, AND MINING.

*** *Many standard works on these subjects which do not appear here are in the Jermyn Street Library, and are available for the use of the Professors of the Normal School of Science.*

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Adam, W. First Lessons in Geology; with a special Article on the Toadstones of Derbyshire, &c. 18mo. sewed. J. & C. Mozley, Derby, 1857.

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——— The Earth's History; or, First Lessons in Geology. fcp. 8vo. cloth, stiff. W. H. Allen & Co., 1869.

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Bakewell, F. C. Geology for Schools and Students. 8vo. cloth. Jarrold & Sons.

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Baily, W. H. Figures of Characteristic British Fossils, with Descriptive Remarks. Vol. 1—Palæozoic. 8vo. half morocco. J. Van Voorst, 1875.

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Bischof, Dr. G. Elements of Chemical and Physical Geology. Translated from the Manuscript of the Author, by B. H. Paul and J. Drummond. 3 vols. 8vo. cloth. *Cavendish Society*, 1854–59.

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Blanford, W. T. Observations on the Geology and Zoology of Abyssinia, made during the Progress of the British Expedition to that Country in 1867–68. 8vo. cloth. Macmillan & Co., 1870. (*With Works on* GENERAL NATURAL HISTORY.)

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Brush, G. J. Determinative Mineralogy, &c.
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Plattner, C. F. Probirkunst mit dem Löthrohre.
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Bloxam, C. L. Metals; their Properties and Treatment. post 8vo. cloth. (Text-Books of Science.) 1870.

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British Fossils (Characteristic), Stratigraphically Arranged, Tabular View of. Mounted to fold in wrapper. post 4to. E. Stanford.

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Brush, G. J. Manual of Determinative Mineralogy, with an Introduction on Blow-pipe Analysis. 2nd edition. royal 8vo. cloth.
J. Wiley & Son, New York, 1875.

Bryce, J. The Geology of Arran and the other Clyde Islands. With an Account of the Botany, Natural History, and Antiquities, &c. 4th edition. crown 8vo. cloth.
W. Collins, Sons, & Co., 1872.

Buckland, Rev. Dr. W. Reliquiæ Diluvianæ; or, Observations on the Organic Remains contained in Caves, Fissures, and Diluvial Gravel, and on other Geological Phenomena, attesting the action of an universal Deluge. 2nd edition. 4to. half calf. London, 1824.

——— Geology and Mineralogy considered with Reference to Natural Theology. 2 vols. 8vo. calf. (Bridgewater Treatise—Original edition.)
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Ray Society, 1846.

Burr, F. Introduction to the Study of Geology, more particularly as applied to the Internal Structure of Great Britain. 8vo. cloth.
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Callon, J. Lectures on Mining delivered at the School of Mines, Paris. Translated by C. Le Neve Foster and W. Galloway. Text, 3 vols. royal 8vo. Atlas, 3 vols. 4to. half calf.
Dulau & Co., 1876–86.

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Report of Progress, 1853–56. 8vo. cloth. With Plans of various Lakes and Rivers between Lake Huron and the River Ottawa, to accompany Report. 4to. half bound.
J. Lovell, Toronto, 1857.
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Dawson Bros., Montreal, 1881–5.
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Catalogue of Canadian Plants. Part I. Polypetalæ. Part II. Gamopetalæ. Part III. Apetalæ. Part IV. Endogens. By J. Macoun. royal 8vo. sewed. 1883–88.
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Dawson Bros., Montreal, 1884.
Map of the Dominion of Canada, Geologically Coloured. From Surveys made by the Geologists' Corps. 1842–1882. Size 5 ft. by 7 ft. 6 in., in 2 sheets. Folded in royal 8vo. size.

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Cochran-Patrick, R. W. Early Records relating to Mining in Scotland. 4to. half morocco.
D. Douglas, Edinburgh, 1878.

Collins, J. H. First Book of Mineralogy. fcp. 8vo. cloth. (Elementary Science Series.) 1873.

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——— Handbook to the Mineralogy of Cornwall and Devon. With Instructions for their Discrimination, &c. 8vo. cloth. 1876.

——— Mineralogy. 2 vols. post 8vo. cloth. (Advanced Science Series.)
W. Collins, Sons, & Co., 1878–83.

——— First Book of Mining and Quarrying, with the Sciences connected therewith. 2nd edition. 12mo. cloth, stiff. (Weale's Series.)
C. Lockwood & Son, 1888.

——— On the Successive Mining Schools of Cornwall. *See* Pamphlets.

Comstock, J. L., M.D. An Introduction to Mineralogy. crown 8vo. bound.
Pratt & Co., New York, 1851.

Conrad, T. A. Check List of the Invertebrate Fossils of North America. Eocene and Oligocene. 8vo. sewed. (Smithsonian Miscellaneous Collections, Vol. 7.) *See* **Transactions**—WASHINGTON.

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Cotta, Bernhard von. Rocks Classified and Described. A Treatise on Lithology. English edition by P. H. Lawrence. crown 8vo. cloth.
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Crew, B. J. A Practical Treatise on Petroleum; comprising its Origin, Geology, Geographical Distribution, History, Chemistry, Mining, Technology, Uses, and Transportation, &c. With an Appendix on the Product and Exhaustion of the Oil Regions, and the Geology of Natural Gas in Pennsylvania and New York. By C. A. Ashburner. imp. 8vo. cloth.
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A. & C. Black, Edinburgh, 1885.

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Longmans & Co., 1868–70.

Crystallography, Treatises on. *See*—

English Works.

Crystallological Society. (*With* **Transactions.**)
Dana, E. S., & J. D.
Griffin, J. J.
Gurney, H. P.
Jordan, J. B.
Milne, J.
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Fock, A.
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R. F. Damon, Weymouth; E. Stanford, 1884.

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Dana, J. D., and **Brush,** G. J. System of Mineralogy. Descriptive Mineralogy, comprising the most recent Discoveries. 5th edition, re-written, enlarged and illustrated. With Appendices by G. J. Brush and E. S. Dana. royal 8vo. cloth.
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11. Order VII. Pachydermata. 1, Elephant (*elephas indicus*); 2, Rhinoceros (*r. unicornis*); 3, Cape Hyrax (*hyrax Capensis*). [272.]

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13. Order VIII. Ruminantia. 1, Springbok, female (*antelope euchore*); 2, Red Deer, male (*cervus elaphus*); 3, Bison (*bos Americanus*); 4, Buffalo (*bos bubalus*); 5, Bull (*bos taurus*). [274.]

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14. Order VIII. Ruminantia. Giraffe (*cameleopardalis giraffa*). [275.]

15. Order IX. Cetacea. 1, Whale (*balæna mysticetus*); 2, Sperm Whale (*cætodon macrocephalus*); 3, African Manatus, or Sea-cow (*manatus senegalensis*); 4, Dolphin (*delphinus delphis*). [276.]

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——— Tea, Coffee, and Cocoa: a Practical Treatise on the Analysis of Tea, Coffee, Cocoa, Chocolate, Maté (Paraguay Tea), &c. post 8vo. cloth. 1874.

Wanklyn, J. A., and **Chapman,** E. T. Water Analysis: a Practical Treatise on the Examination of Potable Water. 4th edition, rewritten by J. A. Wanklyn. post 8vo. cloth. Trübner & Co., 1876.

Ward, F. O. Moyen de créer des Sources Artificielles d'Eau pure pour Bruxelles et pour d'autres grandes Villes d'après le nouveau procédé Anglais. royal 8vo. sewed. A. Decq, Brussels, 1853.

Ware, Martin, jun. Handy Book of Sanitary Law. 12mo. stiff wrapper. Bell & Daldy, 1866.

Warnings to Householders; 130 Hints and Precautions concerning Safety, Health, and Comforts in Our Dwellings. 8vo. sewed. Vizetelly & Co.

Water and Water-Supply. *See Works on* HYDROSTATICS, HYDR s, &c.

See also Ward, F. O. (above).

Westhall, C. Modern Method of Training for Running, Walking, &c. 18mo. cloth, limp. S. O. Beeton.

Wilson, A. Manual of Health Science. fcp. 8vo. cloth. Longmans & Co., 1885.

Wilson, Erasmus. On Food; as a means of Prevention of Disease. 2nd edition. 12mo. stitched. J. Churchill & Sons, 1865.

Wilson, Dr. G. Researches on Colour Blindness. With a Supplement on the Danger attending the Present System of Railway and Marine Coloured Signals. 8vo. cloth. Sutherland & Cox, Edinburgh, 1855.

——— Handbook of Hygiene and Sanitary Science. 5th edition. post 8vo. cloth. J. & A. Churchill, 1883.

Willoughby, E. F. Dietetics; or, the Nature, Functions, and Composition of Food. fcp. 8vo. cloth. W. Collins, Sons, & Co.

——— Hygiene: its Principles as applied to Public Health. post 8vo. cloth. (Advanced Science Series.) W. Collins, Sons, & Co.

Winslow, F. On the Obscure Diseases of the Brain, and Disorders of the Mind. 4th edition, revised. post 8vo. cloth. J. Churchill & Sons, 1868.

Wood, H. C. Fever; a Study in Morbid and Normal Physiology. (Smithsonian Contributions to Knowledge. Vol. 23.) *See* **Transactions** —WASHINGTON.

Wright, C. E. G. School Cookery Book. fcp. 8vo. cloth. Macmillan & Co., 1879.

Youmans, E. L. Hand-Book of Household Science. A Popular Account of Heat, Light, Air, Aliment, and Cleansing, in their Scientific Principles and Domestic Applications. With Illustrative Diagrams. crown 8vo. cloth. D. Appleton & Co., New York, 1860.

Zeitschrift für Hygiene. Herausgegeben von Dr. R. Koch und Dr. C. Flügge. *See* **Journals** (CATALOGUE OF SCIENTIFIC PERIODICALS).

Zerffi, Prof. G. G. Spiritualism and Animal Magnetism. A Treatise on Dreams, Second Sight, Somnambulism, Magnetic Sleep, Spiritual Manifestations, Hallucinations, and Spectral Visions. crown 8vo. cloth. R. Hardwicke, 1871.

Zippel, H. Ausländische Handels- und Nährpflanzen. *See Works on* BOTANY (*Foreign*).

Zeitschrift für Parasitenkunde. *See* **Journals** (CATALOGUE OF SCIENTIFIC PERIODICALS).

Zeitschrift für Schulgesundheitspflege. *See* **Journals** (CATALOGUE OF SCIENTIFIC PERIODICALS).

[*At the Bethnal Green Branch of this Museum there is a Collection* (*formed in* 1857) *illustrating Foods, their Classifications, Adulterations, with Chemical Analyses, &c. Several Works on this subject have been published by the Science and Art Department. See separate List at end.*]

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PART VIII.

WORKS OF REFERENCE.

I.—ENCYCLOPÆDIAS, DIRECTORIES, CALENDARS, &c.

*** *Encyclopædias, &c., relating to Special Subjects, e.g. Watts's Dictionary of Chemistry, Fremy's Encyclopédie Chimique, Baillon's Dictionnaire de Botanique, &c., will be found in their respective divisions.*

Allibone, S. A. A Critical Dictionary of English Literature, and British and American Authors, Living and Deceased, from the Earliest Accounts to the Latter Half of the Nineteenth Century. 3 vols. imp. 8vo. cloth.
Trübner & Co., 1859–71.

American Cyclopædia, The New, a Popular Dictionary of General Knowledge. Edited by George Ripley and Charles A. Dana. 16 vols. imperial 8vo. cloth.
D. Appleton & Co., New York, 1860–63.

Annual Register (Dodsley's). Complete set from its commencement, 1758, to 1870; with Index 1758 to 1819. 114 vols. 8vo. half russia. J. Dodsley.

——— ——— New Series. 1871 and onwards. 8vo. cloth. Rivingtons.

Appleton's Cyclopædia of American Biography. Edited by J. G. Wilson and J. Fiske. 6 vols. imp. 8vo. cloth.
D. Appleton & Co., New York, 1887–9.

Army List, The Official, for the current quarter. royal 8vo. cloth. And Monthly for current date. fcp. 8vo. sewed.
H.M. Stationery Office.

Art (L') de Vérifier les Dates des Faits Historiques, des Chartes, des Chroniques, et autres Anciens Monumens depuis la Naissance de Notre-Seigneur. By a Benedictine Monk of the Congregation of St. Maur. 3rd edition. 3 vols. folio. calf. Paris, 1783–7.

Balfour, E. Cyclopædia of India and of Eastern and Southern Asia, Commercial, Industrial, and Scientific; Products of the Mineral, Vegetable, and Animal Kingdoms, Useful Arts and Manufactures. By Surgeon-General E. Balfour. 3rd edition. 3 vols. royal 8vo. cloth. B. Quaritch, 1885.

Beleze, G. Dictionnaire Universel de la Vie Pratique à la Ville et à la Campagne. 3rd edition. royal 8vo. calf.
Hachette & Co., 1867.

Blackie's Modern Cyclopædia of Universal Information. Edited by C. Annandale. 8 vols. crown 8vo. cloth.
Blackie & Son, 1889–90.

Blair, Dr. Chronological and Historical Tables. royal 8vo. half roan.
Longmans & Co., 1851.

Bohn, H. G. Polyglot of Foreign Proverbs, comprising French, Italian, German, Dutch, Spanish, Portuguese, and Danish, with English Translations, and a General Index. 12mo. cloth. (Bohn's Antiquarian Library.)
Bell & Daldy, 1867.

Bond, John J. Handy Book of Rules and Tables for Verifying Dates of Historical Events, and of Public and Private Documents; giving Tables of Regnal Years of English Sovereigns, with leading dates from the Conquest to the Present Time, 1066—1866. crown 8vo. cloth. Bell & Daldy, 1866.

Bouillet, M. N. Dictionnaire Universel des Sciences, des Lettres, et des Arts. New edition, revised and corrected. royal 8vo. calf.
Hachette & Co., 1869.

Brande, W. T. A Dictionary of Science, Literature, and Art. 3rd edition. 8vo. cloth. 1853.

——— ——— New edition, by Rev. G. W. Cox. 3 vols. 8vo. half calf.
Longmans & Co., 1866–7.

Brewer, Dr. E. C. Dictionary of Phrase and Fable, giving the Derivation, Source, or Origin, of Common Phrases, Allusions, &c. 3rd edition. crown 8vo. half roan. Cassell, Petter, & Galpin.

British Almanack (The) and Companion, 1864 and onwards. 12mo. cloth. Stationers' Company.

British Encyclopædia. By William Nicholson. Engravings by Lowry and Scott. 6 vols. 8vo. calf. London, 1809.

Brockhaus' Conversations-Lexikon. 12th edition. 15 vols. imp. 8vo. half bound.
F. A. Brockhaus, Leipzig, 1875–79.

Calendars of Universities, &c. for current year:—
Aberdeen University.
Birkbeck Institution.
Bradford Technical College.
Cambridge University.
City of London College.
Coimbra, Universidade de.
College of Preceptors.

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Calendars of Universities—*cont.*
Cooper's Hill Royal Indian Engineering College.
Dublin University; and Examination Papers.
Durham University.
Edinburgh University.
Glasgow and West of Scotland Technical College.
Glasgow University.
Japan, Imperial University of.
King's College (London).
London University.
Mason's Science College (Birmingham).
Owens College (Manchester).
Oxford University.
Queen's College (London).
Royal University of Ireland; Reports; Examination Papers.
St. Andrew's University; including L.L.A. and Local Examinations.
Science and Art Department.
Sydney, New South Wales, University.
Sydney Technical College.
Trinity College (London).
University College (Bristol).
University College (London).
University College (Nottingham).
University College of South Wales and Monmouth (Cardiff).
Victoria University (Manchester).
Yorkshire College (Leeds).

Cape of Good Hope Civil Service List, 1889. 8vo. cloth.
Cape Town, 1889.

Cassell's Biographical Dictionary. Containing original Memoirs of the Most Eminent Men and Women of all Ages and Countries. 4to. cloth.
Cassell, Petter, & Galpin.

Cates, W. L. R. A Dictionary of General Biography, with a Classified and Chronological Index of the Principal Names. 8vo. cloth.
Longmans & Co., 1867.

Chambers, E., and **Rees,** A. Cyclopædia; or, an universal Dictionary of Arts and Sciences. With Supplement by Abraham Rees. 5 vols. folio. calf.
London, 1779–91.

Chambers's Encyclopædia; a Dictionary of Universal Knowledge for the People, illustrated with maps and wood engravings. 10 vols. imp. 8vo. cloth. 1860–68.

——— ——— Revised edition. 10 vols. imp. 8vo. half calf. 1874.

——— ——— New edition. Vol. 1 and onwards. imp. 8vo. cloth.
W. & R. Chambers, 1888, &c.

——— Information for the People. 5th edition. 2 vols. imp. 8vo. half morocco. W. & R. Chambers, 1874–5.

Chambers's Book of Days, a Miscellany of Popular Antiquities in connection with the Calendar. Edited by Robert Chambers. 2 vols. imp. 8vo. half morocco.
W. & R. Chambers, 1864.

——— Cyclopædia of English Literature; a History of British Authors, from the Earliest to the Present Times. 2 vols. imp. 8vo. half calf.
W. & R. Chambers, 1856.

Chéruel, A. Dictionnaire Historique des Institutions, Mœurs, et Coutumes de la France. 2 vols. 2nd edition. 12mo. sewed. Hachette & Co., 1865.

Clergy List for current year. 8vo. cloth.
Kelly & Co.

Clinton, H. F. Fasti Hellenici. The Civil and Literary Chronology of Greece, from the Earliest Accounts to the Death of Augustus. 3 vols. 4to. cloth.
1834–41.

——— Fasti Romani. The Civil and Literary Chronology of Rome and Constantinople, from the Death of Augustus to the Death of Heraclius. 2 vols. 4to. cloth.
University Press, Oxford, 1845–50.

Colonial Year Book for 1890. By A. J. R. Trendell. With Introduction by J. R. Seeley. 8vo. cloth.
S. Low & Co., 1890.

Cooley's Cyclopædia of Practical Receipts, Processes, and Collateral Information in the Arts, Manufactures, Professions, and Trades, including Medicine, Pharmacy, Hygiene, and Domestic Economy. 6th edition, revised and greatly enlarged by R. V. Tuson. 2 vols. 8vo. cloth.
J. & A. Churchill, 1880.

Cooper, T. New Biographical Dictionary. post 8vo. cloth.
G. Bell & Sons, 1873.

Crockford's Clerical Directory for current year. imp. 8vo. cloth.
H. Cox, Wellington Street.

Cruden's Concordance to the Old and New Testament, to which is added, a Concordance to the Apocrypha. 13th edition. 4to. cloth. (*C. C. E. L., No.* 2367.) London, 1859.

Cushing, W. Initials and Pseudonyms. A Dictionary of Literary Disguises. royal 8vo. cloth. S. Low & Co., 1886.

Daremberg and Saglio. Dictionnaire des Antiquités Grecques et Romaines. Part 1 and onwards. 4to. sewed. Hachette & Co., 1874, &c.

Darling, J. Cyclopædia Bibliographica: a Library Manual of Theological and General Literature. "Authors." super royal 8vo. cloth. 1854.

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Darling, J. Cyclopædia Bibliographica: a Library Manual of Theological and General Literature. "Subjects, Holy Scriptures." super royal 8vo. cloth. J. Darling, 1859.

Deschanel, A. Privat, et **Focillon,** Ad. Dictionnaire Général des Sciences Théoriques et Appliquées. 2 vols. imp. 8vo. half calf.
Tandou & Co., Paris, &c., 1864–69.

Dictionary (A New) of Quotations from the Greek, Latin, and Modern Languages. post 8vo. cloth.
J. F. Shaw, 1858.

Dictionary of National Biography. Edited by Leslie Stephen and Sidney Lee. Vol. 1 and onwards. 8vo. half morocco.
Smith, Elder, & Co., 1885, &c.

Dictionnaire des Sciences Philosophiques. Prepared under the direction of Ad. Franck. 2nd edition. royal 8vo. half morocco.
Hachette & Co., 1875.

Encyclopædia Americana. A Supplemental Dictionary of Arts, Sciences, and General Literature. 4 vols. 4to. cloth.
J. M. Stoddart, New York, 1883–89.

Encyclopædia Britannica; or, a Dictionary of Arts and Sciences and General Literature. 7th edition. 21 vols. 4to. calf. London, 1842.

——— ——— 8th edition. 21 vols. 4to. half roan. With Supplement to Vol. 1, and Index. A. & C. Black, 1853–60.

——— ——— 9th edition. 24 vols. and Index. 4to. half calf.
A. &. C. Black, 1875–89.

Encyclopædia Metropolitana. 25 vols., with 3 vols. of Plates and General Index. 4to. half calf.
Vols. 1 and 2.—Pure Sciences.
Vols. 3–8.—Mixed Sciences.
Vols. 9–13.—History and Biography.
Vols. 14–25.—Miscellaneous and Lexicographical. London, 1845.

Encyclopédie; ou Dictionnaire universel raisonné des connaissances humaines; mis en ordre par M. de Felice. 42 vols. 4to. calf. 1770–75.
Supplément. 6 vols. 4to. calf. 1775–76.
Planches. 10 vols. 4to. calf. Yverdon, 1775–80.

Encyklopædie der Naturwissenschaften:—
Botanik. *See* Schenk, p. 157.
Chemie. *See* Ladenburg, p. 301.
Mathematik. *See* Schlömilch, p. 29.
Mineralogie, Geologie, &c. *See* Kenngott, &c., p. 121.
Pharmakognosie des Pflanzenreichs. *See* Wittstein, p. 159.
Physik. *See* Winkelmann, p. 356.
Zoologie, Anthropologie, &c. *See* Jäger, &c., p. 252.

English Catalogue of Books, January 1835 and onwards. Compiled by Sampson Low. royal 8vo. half morocco and sewed.
S. Low & Co., 1864, &c.

English Cyclopædia, The. Conducted by C. Knight. 28 vols. 4to. cloth:—
Biography, 6 vols.
Arts and Sciences, 8 vols.
Geography, 4 vols.
Natural History, 4 vols.
Index.
Bradbury & Evans, 1856–62.

Every Man's Own Lawyer. A Handy Book of the Principles of Law and Equity; comprising the Rights and Wrongs of Individuals. By a Barrister. 28th edition. post 8vo. cloth.
C. Lockwood & Son, 1891.

Familiar Quotations, Handbook of; chiefly from English Authors. 3rd edition. fcp. 8vo. cloth.
J. Murray, 1859.
See also Friswell, J. H., Henderson, A. (Latin), and Truths Illustrated.

Fétis, F. J. Histoire Générale de la Musique, depuis les Temps les plus Anciens jusqu'à Nos Jours. 5 vols. royal 8vo. half morocco. 1869–76.

——— Biographie Universelle des Musiciens et Bibliographie Générale de la Musique. 2nd edition. 8 vols., in 4. half morocco.
Firmin-Didot & Co., Paris, 1866–78.

——— ——— Supplément et Complément, par A. Pougin. Vols. 1–2. (in one). royal 8vo. half morocco. 1878–80.
Firmin-Didot & Co., Paris.

Friswell, J. Hain. Familiar Words: an Index Verborum, or Quotation Handbook. 2nd edition, revised and enlarged. post 8vo. cloth.
S. Low, Son, & Marston, 1866.

Gazetteers. *See* page 67.

Globe Encyclopædia of Universal Information. Edited by J. M. Ross. 6 vols. 4to. cloth.
Jack, Edinburgh; Nimmo and Bain, London, 1879.

Grove, G. Dictionary of Music and Musicians (A.D. 1450–1889). With Appendix, edited by J. F. Maitland. 4 vols. 8vo. half morocco.
Macmillan & Co., 1879–89.

——— ——— Index. By Mrs. E. R. Wodehouse. 8vo. cloth.
Macmillan & Co., 1890.

Halkett and Laing. Dictionary of the Anonymous and Pseudonymous Literature of Great Britain. 4 vols. royal 8vo. cloth.
W. Paterson, Edinburgh, 1882–8.

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Haydn's Dictionary of Biography, Past and Present, brought down to Sept. 1877. By B. Vincent. royal 8vo. cloth. E. Moxon, Son, & Co., 1877.

——— Dictionary of Dates and Universal Information, relating to all Ages and Nations. 19th edition, containing the History of the World to the Autumn of 1889. By B. Vincent. royal 8vo. cloth. Ward, Lock, & Co., 1889.

——— Book of Dignities; containing Lists of the Official Personages of the British Empire, &c. Continued by H. Ockerby. 8vo. half roan. W. H. Allen & Co., 1890.

Henderson, A. Latin Proverbs and Quotations. With Translations, Parallel Passages, and English Index. post 4to. cloth. S. Low, Son, & Marston, 1869.

Hume, Rev. A. The Learned Societies and Printing Clubs of the United Kingdom. 8vo. cloth. G. Willis, 1853.

Imperial Bible Dictionary. Edited by Rev. P. Fairbairn, D.D. Illustrated. 2 vols. imp. 8vo. half morocco. Blackie & Son, 1870.

Imperial Dictionary of Universal Biography, by various Writers. Edited by J. F. Waller, LL.D. 6 vols. (in 3). imperial 8vo. calf. W. Mackenzie, 1865–66.

Irving, J. The Annals of Our Time. From the Accession of Queen Victoria to the Jubilee, June 20, 1887. 1 vol. and 3 Supplements. 8vo. cloth. Macmillan & Co., 1869–89.

Kitto, Rev. Dr. Cyclopædia of Biblical Literature. A new edition, edited by the Rev. W. L. Alexander, D.D. 3 vols. royal 8vo. half morocco. A. & C. Black, 1862–66.

Latin Quotations, Dictionary of. 12mo. half calf. (Bohn's Classical Library.) Bell & Daldy, 1860.
See also Dictionary, Henderson, A.

Lempriere's Classical Dictionary, corrected by Prof. Anthon, E. H. Barker, and Rev. Dr. Giles. 8vo. calf. Whittaker & Co.

Low's Handbook to the Charities of London, 54th Year. 1890. fcp. 8vo. sewed. S. Low & Co.

Lowndes, W. T. Bibliographer's Manual of English Literature. 3 vols. 8vo. half calf. London, 1834.

M'Culloch, J. R. A Dictionary, Practical, Theoretical, and Historical, of Commerce and Commercial Navigation, illustrated with Maps and Plans. New edition. By H. G. Reid. 8vo. cloth. 1871.

——— ——— Supplements 1 and 2, in one vol. 8vo. half roan. Longmans & Co., 1875–77.

Mayne, R. G. An Expository Lexicon of Medical Terms, &c. 8vo. cloth. J. Churchill, 1860.

Mendel, H. Musikalisches Conversations-Lexikon. Eine Encyklopädie der gesammten musikalischen Wissenschaften. 11 vols. and Ergänzungsband von H. Mendel und Dr. A. Reissmann, bound in 6 vols. 8vo. half morocco. Heimann & Oppenheim, Berlin, 1870–83.

Michelsen, E. H. The Merchant's Polyglot Manual, in Nine Languages, chiefly extracted from the Tariffs of all Nations. 8vo. cloth. Longmans & Co., 1860.

Murray's Handbooks. *See* page 45.

Naval Annual. *See Works on* NAVAL ARCHITECTURE.

Navy List, The Monthly. Current issue. post 8vo. sewed. H.M. Stationery Office.

Newspaper Press Directory, and Advertisers' Guide. Current issue. imp. 8vo. stiff wrapper. C. Mitchell & Co.

Nicolas, Sir Harris. Historic Peerage of England. Revised, corrected, and continued to the present time, including all recent creations, extinctions, deaths, &c. By W. Courthope, Esq. 8vo. cloth. J. Murray, 1857.

——— Chronology of History. 12mo. cloth. Longmans & Co.

Noël, Fr. Dictionnaire de la Fable, ou Mythologie Grecque, Latine, Égyptienne, Celtique, Persane, Syriaque, Indienne, Chinoise, Mahométane, Slavone, Scandinave, Africaine, Américaine, Iconologique, Rabbinique, Cabalistique, &c. 2 vols. 8vo. half calf. Paris, 1823.

——— Dictionnaire Historique des Personnages célèbres de l'Antiquité. Avec l'Étymologie et la Valeur de leur Noms et Surnoms, précédé d'un Essai sur les Noms propres chez les Peuples Anciens et Modernes. 2nd edition. 8vo. sewed. Paris, 1824.

O'Byrne, W. R. A Naval Biographical Dictionary; comprising the Life and Services of every Living Officer in Her Majesty's Navy, from the Rank of Admiral of the Fleet to that of Lieutenant, inclusive. royal 8vo. cloth. J. Murray, 1849.

Phillips, L. B. The Dictionary of Biographical Reference; together with a Classed Index of the Biographical Literature of Europe and America. royal 8vo. half morocco. S. Low, Son, and Marston, 1871.

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Poole, W. F. An Index to Periodical Literature. 3rd edition brought down to January 1882, with the assistance, as Associate Editor, of W. J. Fletcher, &c. imp. 8vo. cloth.
J. R. Osgood & Co., Boston, 1882.

——— ——— First Supplement, from Jan. 1, 1882, to Jan. 1, 1887. imp. 8vo. cloth. Trübner & Co., 1888.

Post Office Directories. With Maps. imp. 8vo. cloth :—
Bedfordshire, Huntingdonshire, and Northamptonshire. 1885.
Berkshire, Buckinghamshire, and Oxfordshire. 1887.
Birmingham, with Suburbs. 1890.
Birmingham, Staffordshire, Warwickshire, and Worcestershire. 1888.
Bristol, Gloucestershire, Shropshire, and Herefordshire. 1885.
Cambridgeshire, Norfolk, and Suffolk. 1888.
Cheshire. 1878.
Derbyshire, Leicestershire, Nottinghamshire, and Rutland. 1888.
Devonshire and Cornwall. 1889.
Durham and Northumberland. 1879.
Essex, Herts, Middlesex, 1890.
Kent, Surrey, Sussex. 1891.
Lancashire. 1864.
Lincolnshire. 1876.
London Directory for current year.
London Suburban. 1888.
Shropshire, Herefordshire, and Gloucestershire, with Bristol. 1879.
Somersetshire, with Bristol. 1875.
Somersetshire and Gloucestershire, with Bristol. 1889.
Wiltshire, Dorsetshire, and Hampshire. 1885.
Yorkshire, West Riding. 1889.
,, North and East Ridings, with the City of York. 1879.
European Directory. 1866.
Kelly & Co.

Postal Guide (British), current issue. post 8vo. sewed. Her Majesty's Printers.

Proverbs, Handbook of, comprising an entire republication of Ray's Collection, &c., with large additions by H. G. Bohn. 12mo. cloth.
Bell & Daldy, 1866.
See also Bohn, H. G., and Truths Illustrated.

Public General Acts, 1879 and onwards. royal 8vo. cloth. H.M. Printers.
See also Statutes.

Rose, Rev. H. J. New General Biographical Dictionary. 12 vols. 8vo. half calf. T. Fellowes, 1857.

Scientific and Learned Societies of Great Britain and Ireland, Year-Book of the. With List of the leading Scientific Societies throughout the world. 1st Annual Issue, 1884, and onwards. 8vo. cloth. C. Griffin & Co.

Scudder, S. H. Catalogue of Scientific Serials of all Countries, including the Transactions of Learned Societies in the Natural, Physical, and Mathematical Sciences, 1633–1876. *See Works on* PHYSICS (*General Treatises*).

Shakspere, Complete Concordance to. By Mrs. Cowden Clarke. New edition. imp. 8vo. cloth. W. Kent & Co.

Shakespeare-Lexicon. A complete Dictionary of all the English Words, Phrases, and Constructions in the Works of the Poet. By Dr. A. Schmidt. 2 vols. imp. 8vo. cloth.
Reimer, Berlin; Williams & Norgate, 1874–5.

Simmonds, P. L. Dictionary of Trade Products, Commercial, Manufacturing and Technical Terms, &c. 12mo. half bound. G. Routledge & Co., 1858.

——— Dictionary of Useful Animals and their Products. Including a Glossary of Trade and Technical Terms, &c. post 8vo. cloth. E. & F. N. Spon.

Smith, Dr. W. Dictionary of Greek and Roman Antiquities. 8vo. half calf. J. Murray, 1856.

——— Dictionary of Greek and Roman Biography and Mythology. 3 vols. 8vo. half calf. J. Murray, 1853–56.

——— Classical Dictionary of Biography, Mythology, and Geography. 8vo. half calf. J. Murray, 1853.

——— Dictionary of Greek and Roman Geography. 2 vols. 8vo. half calf. J. Murray, 1856–57.

——— Concise Dictionary of the Bible. 8vo. half calf. J. Murray, 1865.

Sonnenschein, W. Swan. The Best Books. A Reader's Guide to the Choice of the Best available Books (about 25,000) in every department of Science, Art, and Literature, with the Dates of the First and Last Editions, and the Prices, Sizes, and Publisher's Name of each Book. A Contribution towards Classified Bibliography. With a copious Index. royal 8vo. cloth.
Swan Sonnenschein & Co., 1887.

Spon's Encyclopædia of the Industrial Arts, Manufactures, and Commercial Products. *See Works on* MANUFACTURES, &c.

Statesman's Year Book. Statistical, Genealogical, and Historical Annual of the States and Sovereigns of the Civilised World for the Year 1865, and onwards. Edited by F. Martin and J. Scott Keltie. post 8vo. cloth, limp.
Macmillan & Co., 1865, &c.

Statutes, The. Revised edition. Vols. 1–18 (A.D. 1235–1878). imp. 8vo. cloth. (For continuation, *see* Public General Acts.) H.M. Printers, 1872, &c.

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Statutes, The. Chronological Table and Index. 6th edition. imp. 8vo. cloth. H.M. Printers, 1880.

Taylor, J. Antiquitates Curiosæ; the Etymology of many remarkable Old Sayings, Proverbs, and Singular Customs. fcp. 8vo. half calf. London, 1818.

Thom's Irish Almanac and Official Directory of the United Kingdom of Great Britain and Ireland, for the current year. 8vo. cloth. A. Thom, Dublin.

Times Newspaper, Index (Palmer's) to the. From 1842 and onwards. post 4to. cloth. S. Palmer.

Townsend, G. H. The Manual of Dates, a Dictionary of Reference of the Most Important Facts and Events in the History of the World. 5th edition, entirely remodelled and edited by F. Martin. 8vo. half bound. F. Warne & Co., 1877.

Truths Illustrated by Great Authors. A Dictionary of Quotations of Maxims, Proverbs, &c., in Prose and Verse, compiled from Shakespeare and other Writers. 11th edition. fcp. 8vo. cloth. C. Lockwood & Co., 1861.

Ure's Dictionary of Arts, Manufactures, and Mines. 6th edition. Edited by Robert Hunt, F.R.S. 3 vols. 8vo. cloth. 1867.

——— ——— 7th edition. Edited by R. Hunt and F. W. Rudler. 4 vols 8vo. cloth. Longmans & Co., 1875–8.

Vapereau, G. Dictionnaire Universel des Contemporains. 4th edition. royal 8vo. calf. Hachette & Co., 1870.

——— Dictionnaire Universel des Littératures. royal 8vo. half morocco. Hachette & Co., 1876.

Victorian Year-Book. By H. H. Hayter, 1879–80, 1882–3, 1887–8, 1888–89. 8vo. sewed. Melbourne, 1880, &c.

Walford, C. The Insurance Cyclopædia: being a Dictionary of Terms; a Biographical Summary; a Bibliographical Repertory; an Historical Treasury; and a detailed Account of the Rise and Progress of Insurance in Europe and in America. Vols. 1–5 (A–HAN). royal 8vo. cloth. Layton, Fleet Street, 1871–80.

Wheeler, W. A. Dictionary of the Noted Names of Fiction. 12mo. cloth. Bell & Daldy.

Whitaker's Almanack for the current year. post 8vo. cloth. J. Whitaker.

Woodward, B. B., and **Cates,** W. L. R. Encyclopædia of Chronology, Historical and Biographical. royal 8vo. cloth. Longmans & Co., 1872.

II.—DICTIONARIES.

ENGLISH.

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PART IX.

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1.—TRANSACTIONS AND PROCEEDINGS OF SCIENTIFIC SOCIETIES, INCLUDING MUSEUMS, &c.

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7. Paris, 1878.
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9. Reims, 1880.
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11. La Rochelle, 1882.
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